EVALUATION CHECKLIST

Note: Information must be referenced; attach a list of references.

Site Name : GARY DEVELOPMENT LANDFILL
TDD No. :
Reference No.: IND077005916

1. SOURCE AREAS, CONTAINMENT, WASTE QUANTITY

Complete the following for each area where hazardous substances have been deposited, stored, disposed of, or placed, plus those soils that have become contaminated from migration of a hazardous substance.
(refer to Table 1, and Tables 2-5, 3-2, 4-2, 6-3, and 6-9)

Source Area	Containment	Waste Quantity
HAZ. INDUST WASTE	LANDFILLED	190,075 CU YARDS
SLUDGE	OIL, LIME, PAINT, BIBS	71,084
OILY WASTE		22,000
PESTICIDES		120
INORGANIC		1,653
HEAVY METALS		95,308

2. AVAILABLE ANALYTICAL DATA

For the media listed below, note if there is a documented observed release or the potential to release to that media. An observed is noted if a hazardous substance is detected at three times the background sample concentration or background sample quantitation limit. A potential to release is noted if wastes were disposed of in a source area which would allow contaminant migration. (refer to PA Data and Rescoring Record Table for additional criteria).

Media	Potential to Release	Observed Release	Comments
Groundwater			NAT WATER TABLE 5'-DEPRESSED 30' LOWEST WASTE BURIED AT WATER TABLE CLAY LINER-LEACHATE COLLECTION
Surface Water	HIGH	MAR 76	CONTAMINATED DITCH ON SITE - WATER FLOW THRU TO GRAND CALUMET RIVER
Sediment			
Soil < 2 feet deep		MAR 76	DUMPING LIQUID PAINT + OIL WASTES
Soil > 2 feet deep			
Air	NONE	NO	DAILY FLY ASH / SLUDGE COVER
Other (specify, e.g., sludge, source)			

3. GROUNDWATER PATHWAY

A. Population served by private wells or drinking water supplies within the designated area rings. Note if the water supplies within that ring are private (P), community (C) or both (B). (reference with water supply distribution maps and topographic maps using the average county population density)

Lake Co. IN pop = 475,594
Lake Co = 956.9 people/sq. mile

Distance (miles)		Population Res Well	C	B	Type of Supply (P, C, or B)
0 - 1/4	.196	—	6	6	C
1/4 to 1/2	.589	—	45	45	C
1/2 to 1	2.357	—	286	286	C
1 to 2	9.424	—	2702	2702	C
2 to 3	15.708	124	4500	4624	B
3 to 4	21.991	1140	8409	9555	B

B. Are any of the supplies to the population noted above contaminated? ___Yes ___No

If yes:

- What is the location of the well? _____
- What are the contaminants detected? _____

_____

- Are any health-based benchmarks exceeded (e.g., MCLs)?
___ Yes ___No

C. What is the distance to the nearest drinking water well?
1/2 miles

D. What is the depth to groundwater on the property?
30 feet

4. SURFACE WATER PATHWAY

A. Identify the surface water bodies and flow rates (cubic feet per second, cfs) along a 15 stream-mile pathway. Identify the uses of each surface water body as:

- DW = drinking water
- I = irrigation of commercial food crops or commercial forage crops
- L = watering of commercial livestock
- FP = ingredient in commercial food preparation
- R = major or designated recreation area
- F = fishery

Surface Water Body	cfs	Use(s)
GRAND CALUMET RIVER	25 cfs	F recreation, industry
INDIANA HARBOR CANAL		
LAKE MICHIGAN		DW, R,

B. Identify the population served by surface water intakes along the 15 stream-mile pathway.

Surface Water Body	Distance to Intake	Population Served
LAKE MICHIGAN - WHITING	10 +	5,600
HAMMOND	"	29,4, 549
EAST CHICAGO	"	39,786

C. Are any of the intakes to the population noted above contaminated? ___Yes ___No

If yes:

- What is the location of the intake? ____________
- What are the contaminants detected? ____________

- Are any health-based benchmarks exceeded (e.g., MCLs)? ___ Yes ___No

D. Are there any fisheries along the 15 stream-mile pathway that are contaminated? ___Yes ___No

If yes:

- What is the location of the fishery? ADJ. TO SITE + DOWNSTREAM
- What are the contaminants detected? ____________

- Are any health-based benchmarks exceeded (e.g., MCLs)? ___ Yes ___No

E. Identify sensitive environments noted on PA Table 5, along the 15 stream-mile pathway and note the surface water body it is on.

Sensitive Environment	Surface Water Body
WETLANDS - 20 miles along 15mi stream	
on Grand Calumet River	

F. Are there any sensitive environments along the 15 stream-mile pathway that are contaminated? ___Yes ___No

If yes:

- What is the location of the sensitive environment? ____________

- What are the contaminants detected? ____________

G. What is the distance to nearest surface water body? <50 feet

H. What is the flood frequency of the nearest surface wa-- body? 100 years

5. SOIL EXPOSURE PATHWAY

A. What is the number of people who reside on the property or within 200 feet of contamination who occupy a residence, attend a school, or attend a day care center?

0

B. What is the number of workers on the property and at a workplace within 200 feet of contamination?

50

1 - 100

6. AIR PATHWAY

A. Population residing within the designated area rings. (reference with topographic maps using the average county population density for populations from 0 to 1/2 mile, and with GEMS for 1/2 to 4 miles)

Distance (miles)		Population
0 - 1/4	.196	6
1/4 to 1/2	.589	45
1/2 to 1	2.357	286
1 to 2	9.424	2702
2 to 3	15.708	4624
3 to 4	21.991	9555

B. Determine the wetland acreage for the following rings:

Distance (miles)	Total Wetland Acreage
0 - 1/4	40
1/4 to 1/2	40
1/2 to 1	60